50154/PCT-5

D5

NOVEL PHYSIOLOGICALLY ACTIVE SUBSTANCE NK30424A AND NK3024 B, THEIR PRODUCTION AND USE

Publication number: JP11127882 (A)
Publication date: 1999-05-18
Inventor(s): TAKAYASU YOSHIYUKI; YAMAZAKI TADAO; AOYAMA TAKAYUKI; HARADA TAKASHI
Applicant(s): NIPPON KAYAKU KK
Classification:
- international: ***C12P1/06; A61K31/335;*** *C12R1/465;* **C12P1/06; A61K31/335;** (IPC1-7): C12P1/06; A61K31/335; C12P1/06; C12R1/465
- European:
Application number: JP19970309505 19971027
Priority number(s): JP19970309505 19971027

Abstract of **JP 11127882 (A)**

PROBLEM TO BE SOLVED: To provide the subject novel substance that is obtained from a microorganism in Streptomyces capable of producing a physiologically active substances NK3042A and NK3024B, has the TNF &alpha production inhibitory action and is useful for treatment and prevention of rheumatoid arthritis, Kawasaki disease, cancer cachexia, and the like. SOLUTION: This novel substances have the following physical and chemical properties: appearance, white powder; melting point, 129-131 deg.C (decomposition); molecular formula, C30 H46 N2 O10 S; Molecular weight, 626; solubility, readily soluble in water, methanol and dimethyl sulfoxide; soluble in methanol; insoluble in n-hexane and ethyl acetate; the color reactions, positive to Rydon-Smith, ninhydrin, sulfuric acid and potassium permanganate; negative to Ehrlich, Skaguchi, and Dragendorff; the Rf value, 0.5 according to the silica gel thin layer chromatography with an eluent solvent of l-butanol-acetic acid-water (4:1:1). These compounds, NK30424 A or B (or their salts) are useful for treatment and prevention of rheumatoid arthritis, Kawasaki disease, Crohn disease, Behcet's disease, bronchial asthma, cancer cachexia, septicemia, multiple sclerosis, and dementia.